

# ALGORITHM FOR THERAPY FOR GLYCEMIC CONTROL OF TYPE 2 DIABETES MELLITUS IN ADULTS: EXPLANATORY NOTES

1. This algorithm should be used in conjunction with the “Basic Guidelines for Diabetes Care” developed by the Diabetes Coalition of California in conjunction with the Diabetes Control Program of the California Department of Health Services. Copies may be obtained by calling (916) 445-2547.
2. The terms “Asymptomatic Hyperglycemia”, “Symptomatic Hyperglycemia”, and “Very Symptomatic Hyperglycemia” are not formal classifications or stages of type 2 diabetes. They are used to indicate degrees of metabolic decompensation. “Asymptomatic” refers to abnormal blood glucose levels diagnostic of diabetes without signs or symptoms. “symptomatic” might include blurred vision, itching, recurrent infections such as skin infections, vaginal yeast infections and urinary tract infections, leg cramping, and mild increased thirst and urination. “Very symptomatic” would include marked increase in thirst and urination, dehydration and ketosis.
3. This algorithm emphasizes the need to evaluate regularly the patient’s response to therapy and identify the therapy which achieves and maintains glycemic control with the least pharmacologic intervention possible.
4. Generic; trade names and manufacturer for classes of medications named in the algorithm.
5. Prescription of these medications requires knowledge of indications, side effects, and contraindications.

Oral Agents			
Class	Generic	Trade	Manufacturer
Alpha Glucosidase Inhibitor	Acarbose	Precose	Bayer
	Miglitol	Glyset	Pharmacia-Upjohn
Biguanide	Metformin	Glucophage	Bristol-Myers Squibb
Insulin Secretagogues Meglitinides	Repaglinide	Prandin	Novo-Nordisk
Sulfonylurea	Chlorpropamide	Diabinese	Pfizer
	Glimepiride	Amaryl	Hoechst-Roussel
	Glipizide	Glucotrol	Pfizer
	Glyburide	DiaBeta	Hoechst-Roussel
		Micronase	Upjohn
		Glynase	Upjohn & Pharmacia
	Tolazamide		Mylan
	Tolbutamide		Mylan
Thiazolidinedione	Troglitazone *	Rezulin	Parke-Davis
	Rosiglitazone	Avandia	Smith Kline-Beecham
	Pioglitazone	Actos	Takeda/Lilly
Insulin			
Rapid Acting	Lispro	Humalog	Lilly
Short Acting	Regular (R) Purified Pork Pork	Regular Iletin II Regular Purified Pork insulin	Lilly Novo Nordisk
	Human	Humulin R Novolin R Velosulin BR	Lilly Novo Nordisk Novo Nordisk
Intermediate Acting	NPH (N) Purified Pork Pork Human	Pork NPH Iletin II NPH Purified N Humulin N Novolin N	Lilly Novo Nordisk Lilly Novo Nordisk
	Lente (L) Purified Pork Pork Human	Lente Iletin II (Pork) Lente (L) Purified Pork Humulin L Novolin L	Lilly Novo Nordisk Lilly Novo Nordisk
Long Acting	Ultralente Human	Humulin U	Lilly
Pre-Mixed	NPH/Regular (70/30) Human	Humulin 70/30 Novolin 70/30	Lilly Novo Nordisk
	NPH/Regular (50/50) Human	Humulin 50/50	Lilly

\* No longer indicated for initial single therapy